

**Notice of Allowability**

Application No.

10/006,294

Examiner

Anand Bhatnagar

Applicant(s)

PELLEY, JASON CHARLES

Art Unit

2623

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 12/27/05.
2. ☒ The allowed claim(s) is/are 1-38 and 59-62.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

***Response to Arguments***

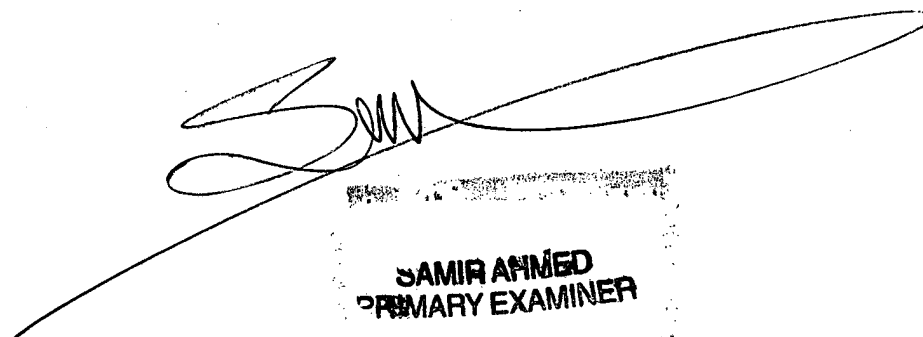
1. Applicant's amendment filed on 12/27/05 has been entered and made of record.
2. Applicant has amended claims 1-33, 35-38, and 59-62. Applicant has canceled claims 39-58. Currently claims 1-38 and 59-62 are pending.
3. Applicant has amended claim 25 wherein the dependency from claim 1 has been deleted and this claim is now independent. As a result the objection of claim 35 has been overcome. Applicant has amended claims 1, 12, 25, and 29 to overcome the 35 USC 112, second paragraph, rejection to these claims as well as to the claims dependent from these claims.
4. Claims 1-38 and 59-62 are allowed.
5. The following is a statement of reasons for the indication of allowable subject matter: The closest prior art of Manjunath et al. (U.S. patent 6,332,030 B1) discloses to embed a watermark/signature into the coefficients of an image that has been transformed by a DWT and/or DCT. Further Manjunath et al. discloses to use a scaling/weighting factor to embed the watermark/signature based on the distortion present (Manjunath et al. col. 7 lines 25-31) and to do this adaptively by controlling the weights (Manjunath et al. col. 17 lines 43-55). Regarding claim 1, Manjunath et al. does not teach the feature of "determining an adaptation strength  $\alpha_i$  for each unmodified coefficient  $C_i$  as a function  $F\{C_n\}_i$  of a predetermined set  $\{C_n\}_i$  of transform coefficients  $C_n$  which set excludes the

coefficient  $C_L$  wherein the coefficients are serially ordered and the coefficients  $C_A$  are coefficients preceding coefficient  $C_L$ ," that, in combination with the other claim limitations. Regarding claim 12, Manjunath et al. does not teach the feature of "a calculator for calculating an adaptation strength  $\alpha_L$  for each unmodified coefficient  $C_L$  as a function  $F\{C_A\}_L$  of a predetermined set  $\{C_A\}_L$  of transform coefficients  $C_A$  which set excludes the coefficient  $C_L$  wherein the coefficients are serially ordered and the coefficients  $C_A$  are coefficients preceding coefficient  $C_L$ ," that, in combination with the other claim limitations. Regarding claim 25, Manjunath et al. does not teach the feature of "calculating for each modified coefficient  $C_L'$ , the value of the said function  $F\{C_A\}_L$  of the corresponding set  $\{C_A\}_L$  of coefficients  $C_A$  to determine  $\alpha_L$ ," that, in combination with the other claim limitations. Regarding claim 29, Manjunath et al. does not teach the feature of "a calculator for calculating, for each modified coefficient  $C_L'$ , the value of the said function  $F\{C_A\}_L$  of the corresponding set  $\{C_A\}_L$  of coefficients  $C_A$  to determine  $\alpha_L$ ," that, in combination with the other claim limitations.

6. Any comments considered necessary by the applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

**Contact Information**

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anand Bhatnagar whose telephone number is (571) 272-7416, whose supervisor is Jingge Wu whose number is (571) 272-7429, group fax is 703-872-9306, and Tech center 2600 customer service office number is 703-306-0377.



**SAMIR AHMED  
PRIMARY EXAMINER**

AB

Anand Bhatnagar

Art Unit 2623

January 22, 2006